	Application No.	Applicant(s)
Notice of Allowability		, approxim(e)
	10/748,886	KASAKO ET AL.
	Examiner	Art Unit
	Brian R. Peugh	2187
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica IGHTS. This application is subje	application. If not included ation will be mailed in due course. THIS
1. ☑ This communication is responsive to the filing of 4/26/06.		
2. The allowed claim(s) is/are 30-42 and 44-70.		
 3. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	al Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 12/30/05, 1/16/05, 2/2/05 ソソスりでも 4. □ Examiner's Comment Regarding Requirement for Deposit of Biological Material	Paper No./Mail 8), 7. ☐ Examiner's Ame	endment/Comment
	8. ⊠ Examiner's Stat	ement of Reasons for Allowance
	9.	

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The prior art teaches related logical volume systems, but fails to teach the combination including the limitations of:

(Claim 30) "...wherein said first storage device and said second storage device change said first information, said second information. said third information and said fourth information based on at least one command sent from said second information targeted to said fourth logical volume, if said first information processing device has a failure";

(Claim 48) "...wherein said second controller, after changing said third information and said fourth information, receives data sent from said second information processing device to said fourth logical volume and stores said data sent from said second information processing device in said fourth logical volume and stores data corresponding to said data sent from said second information processing device in said third logical volume and transfers said data stored in said third logical volume to said first storage device";

(Claim 54) "...wherein said first storage device and said second storage device change said first information and said second information based on at least one command sent from said second information processing device so that said second information processing device sends data targeted to said fourth logical volume, if said first information processing device has a failure";

(Claim 62) "...said fourth logical volume functions as said primary logical volume, if said second information processing device functions as said primary information processing device, said third logical volume functions as said transferring logical volume, said second logical volume functions as said receiving logical volume, and said first logical volume functions as said secondary logical volume. wherein said storage system is changed from said first status to said second status based on one or more commands sent from said second information processing device.

(Claim 70) "...said fourth logical volume functions as said primary logical volume, if said second information processing device functions as said primary information processing device, said third logical volume functions as said transferring logical volume, said second logical volume functions as said receiving logical volume, and said first logical volume functions as said secondary logical volume, and wherein said storage system is changed from said first status to said second status if said first information processing device has a failure".

Claims 31-42, 44-47, 49-53, 55-61, and 63-69 are allowed as being dependent upon, and thus incorporating therein, the allowable subject matter of the respective parent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian R. Peugh whose telephone number is (571) 272-4199. The examiner can normally be reached on Monday-Thursday from 7:00am to 4:30pm. The examiner can also be reached on alternate Friday's from 7:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks, can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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May 11, 2000